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=> FILE REG
FILE 'REGISTRY' ENTERED AT 16:53:35 ON 25 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)


=> DISPLAY HISTORY FULL L1-

     FILE 'LREGISTRY' ENTERED AT 14:49:09 ON 25 JUN 2009
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L2              1 SEA "COPPER PHTHALOCYANINE"/CN
                  D RN
L3                STR 147-14-8

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L4             50 SEA SSS SAM L3
L5           9400 SEA SSS FUL L3
                  SAV L5 JOH373/A

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L6                STR L3

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L18             STR L17

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                SAV L20 JOH373B/A

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L21          11 SEA L16
L22          42 SEA L20

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L23          11 SEA L16
L24          42 SEA L20
L25           9 SEA 1808-2002/PY,PRY,AY AND L23
L26          41 SEA 1808-2002/PY,PRY,AY AND L24

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L28         268 SEA ((ULTRAVIOLET? OR ULTRA(W)VIOLET? OR UV# OR SUV OR
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L29         344 SEA (PHOTORX## OR PHOTOREACT? OR PHOTOSENS? OR PHOTOPOLYM
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                PHOTOCAT?)/BI,AB

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L31      116960 SEA RESIST OR RESISTS OR PHOTORESIST?
L32      135823 SEA MASK? OR PHOTOMASK?
L33           3 SEA L26 AND (L30 OR L31 OR L32)
L34      245056 SEA SOLDER? OR BRAZ? OR WELD?
L35           1 SEA L26 AND L34
L36           4 SEA L26 AND (L27 OR L28 OR L29)
L37     1182580 SEA (MIXT# OR MIXTURE? OR BLEND? OR ADMIX? OR COMMIX? OR
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L38             5 SEA L26 AND L37
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L40             7 SEA 1808-2002/PY,PRY,AY AND L39
L41            34 SEA L24 NOT (L25 OR L40)
L42            33 SEA 1808-2002/PY,PRY,AY AND L41
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     FILE 'REGISTRY' ENTERED AT 16:53:35 ON 25 JUN 2009


=> D L16 QUE STAT
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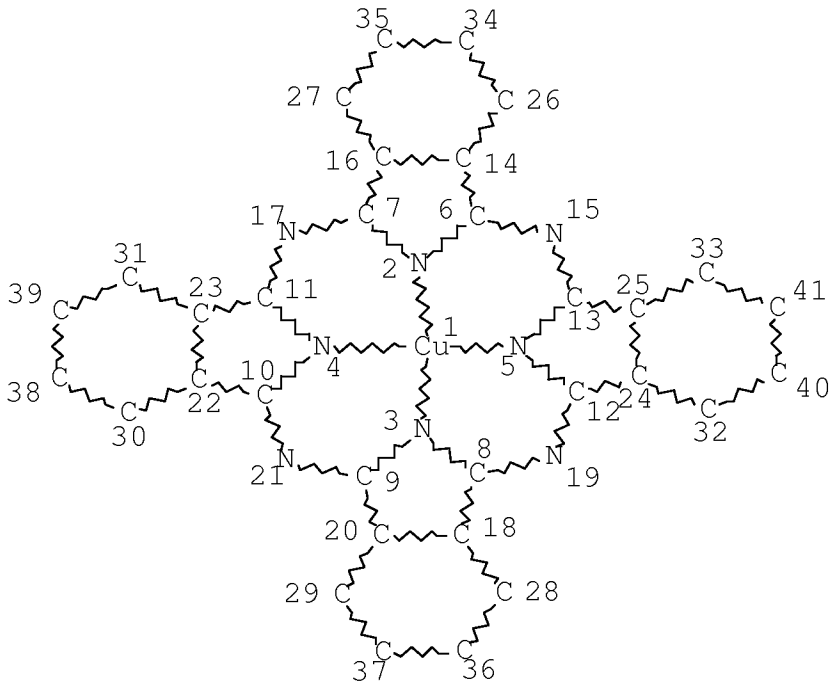


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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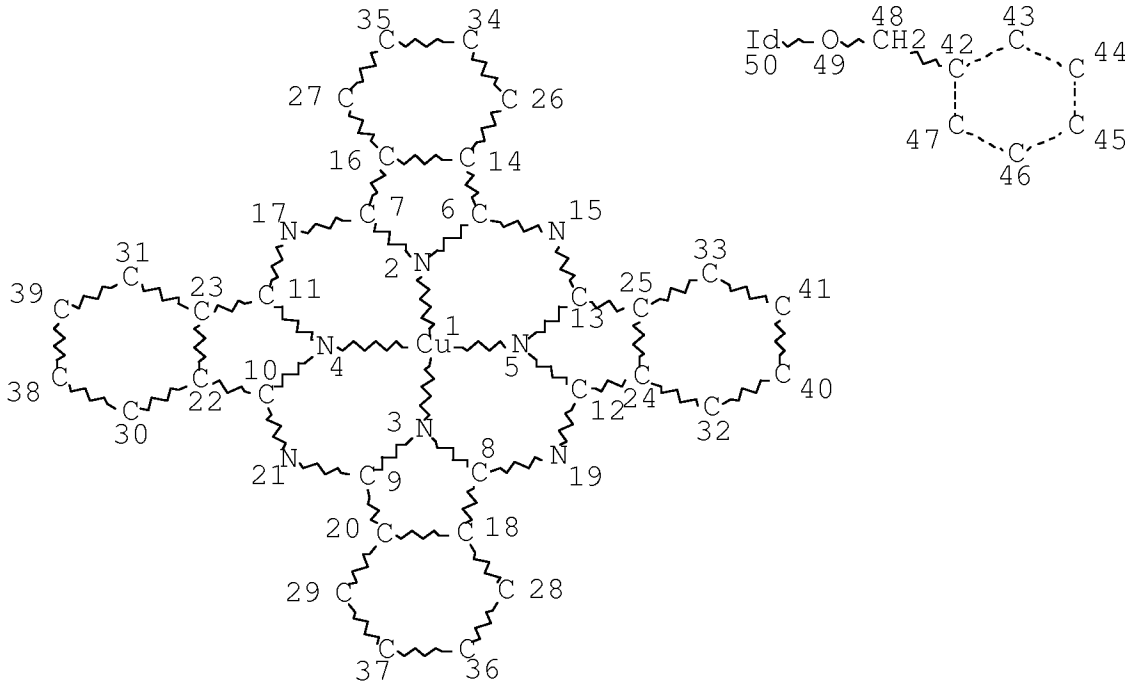

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NUMBER OF NODES IS 50

STEREO ATTRIBUTES: NONE
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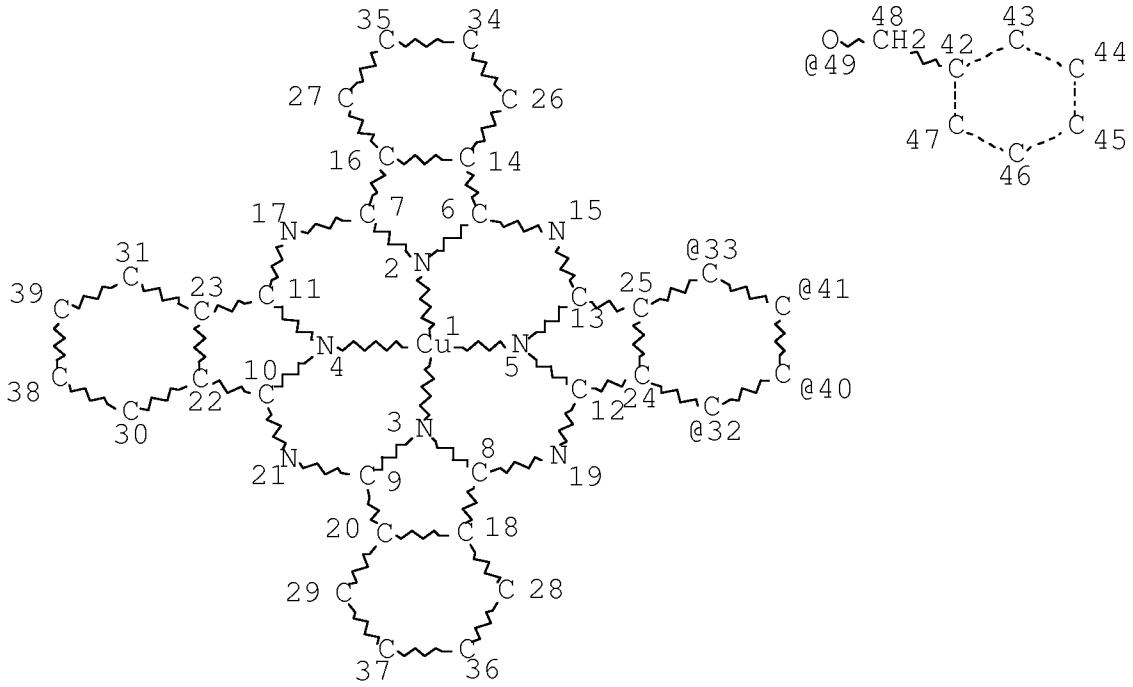

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 49

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED   9400 ITERATIONS   15 ANSWERS
SEARCH TIME: 00.00.01

=> D L20 QUE STAT
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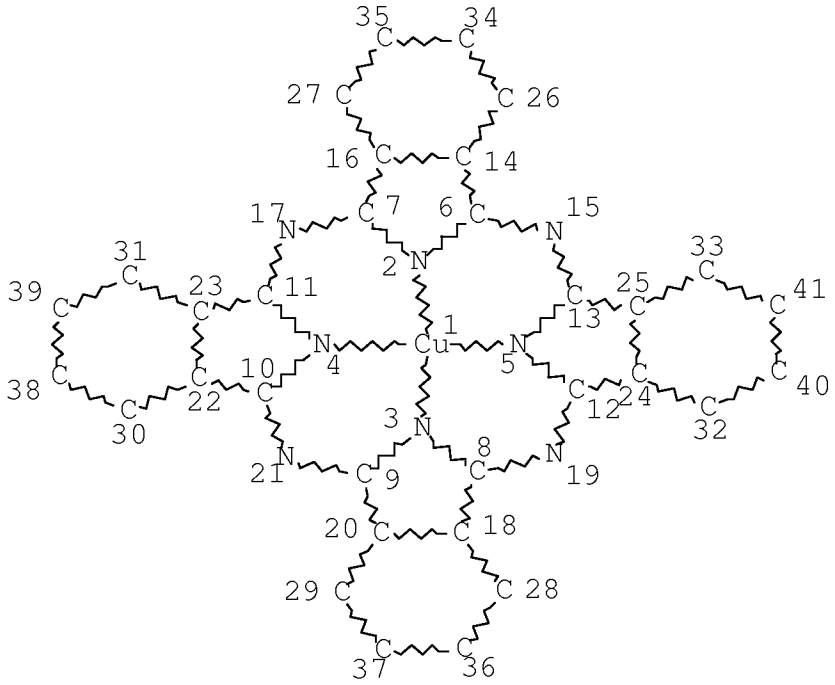

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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STEREO ATTRIBUTES: NONE
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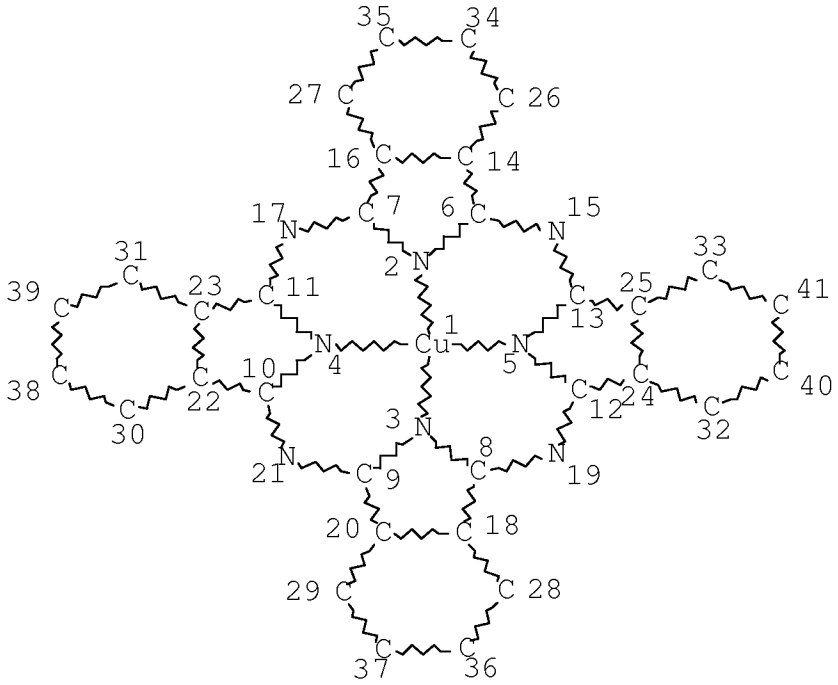

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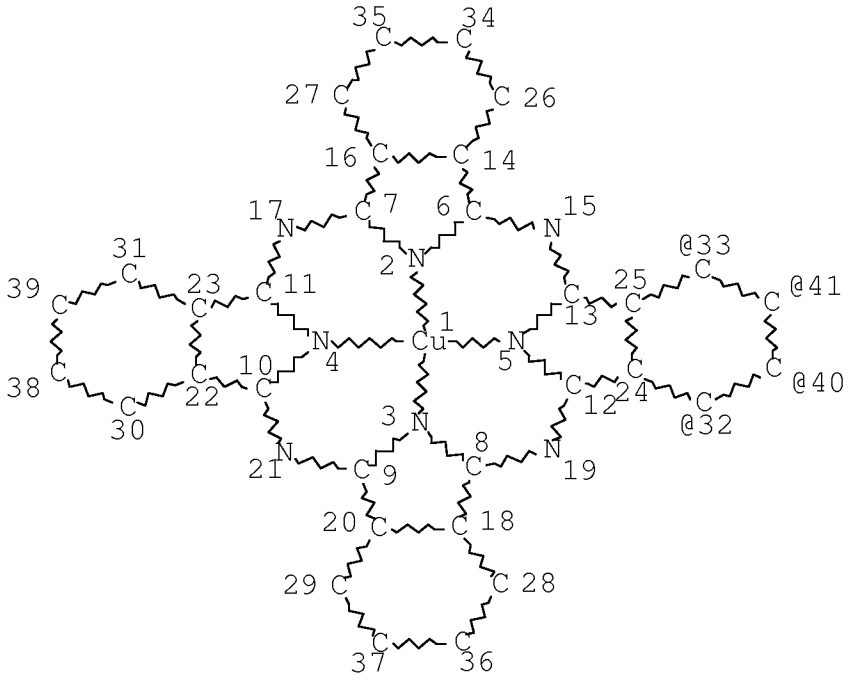

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STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 9400 ITERATIONS 57 ANSWERS
SEARCH TIME: 00.00.01

=> FILE HCA
FILE 'HCA' ENTERED AT 16:54:49 ON 25 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

(FORMULA 2)

=> D L25 1-9 BIB ABS HITSTR HITRN RE

L25 ANSWER 1 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 141:44857 HCA Full-text
TI Photosensitive resin composition comprising halogen-free colorant
IN Oka, Hidetaka; Adam, Jean-Marie
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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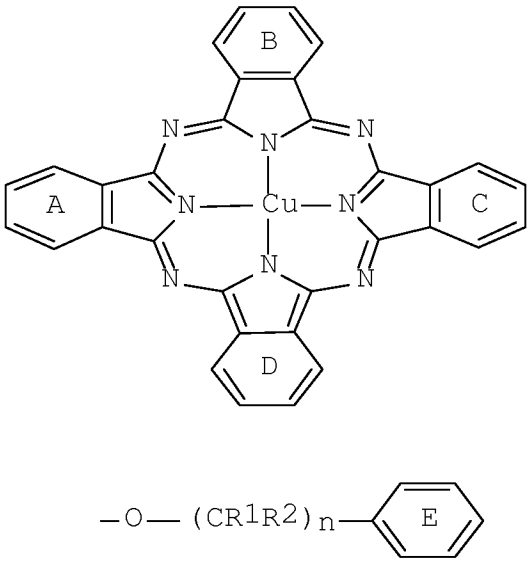

I

AB The present invention relates to a photosensitive resin compn. for solder resists comprising as a component (A) a green colorant of the formula I (rings A, B, C and D are substituted by hydroxy or by moiety; R, R2 = H, C1-4-alkyl; n = 0-3; ring E = unsubstituted or substituted by C1-6-alkyl, C1-6-alkoxy, hydroxy, NHCOR3, NHSO2, R4 or SO2NHR5; R3, R4, R5 = C1-4-alkyl; Ph); as a component (B) an alkali sol. oligomer or polymer reactive or unreactive; as a component (C) a polymerizable monomer; as a component (D) a photoinitiator; as a component (E) an epoxy compd.; and also, if desired, as a component (F) further additives. The photosensitive compn. can be used as solder resist, etching resist or plating resist in the manuf. of printed circuit boards. The inventive solder resist comprising a single green pigment that maintains qualities required as a green coloring material, such as clear hue, good weather- and heat resistance and that is satisfactory at the same time in the points of environmental pollution, has not been found yet in the present state of the art.

IT 227101-11-3 290821-67-9 667865-45-4
(photosensitive resin compn. comprising halogen-free colorant)

RN 227101-11-3 HCA

CN Copper, [2,9,16,23-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

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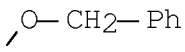

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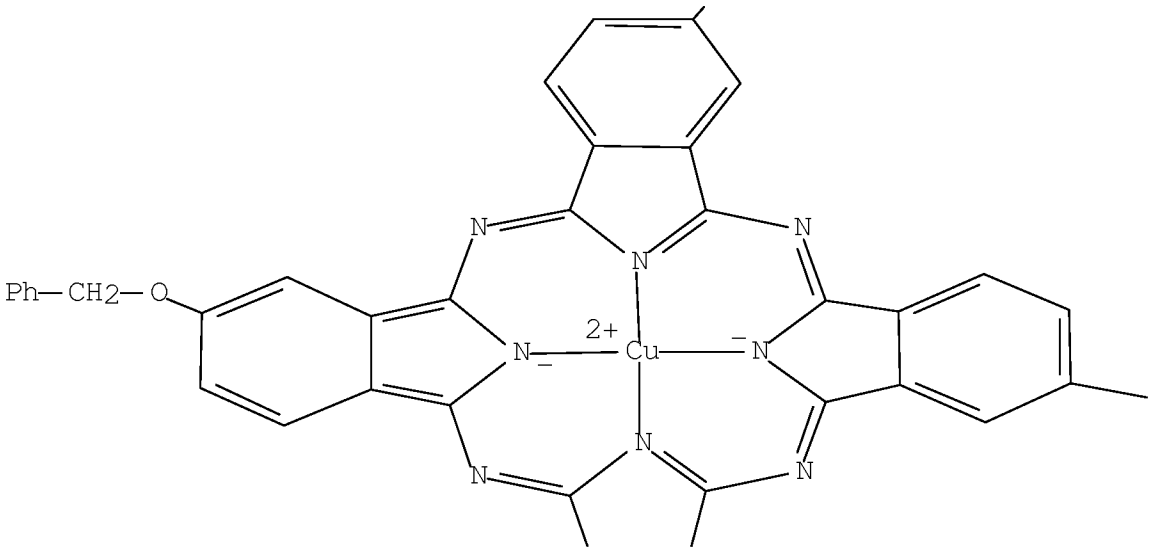

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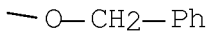

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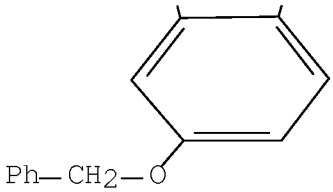

RN 290821-67-9 HCA

CN Copper, [C,C,C,C-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]- (9CI) (CA INDEX NAME)

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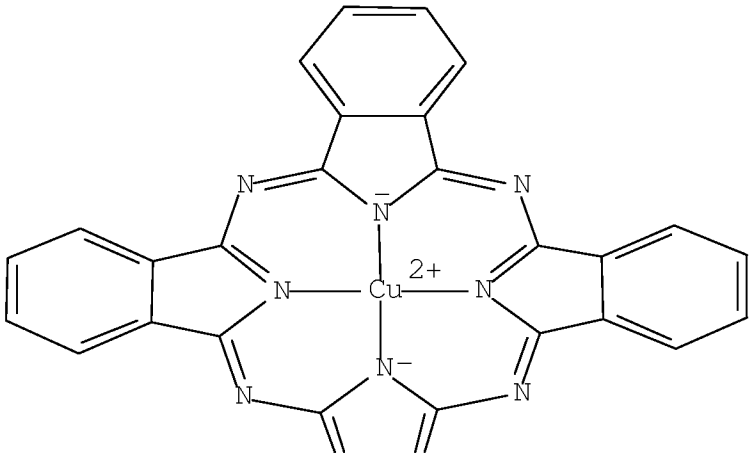

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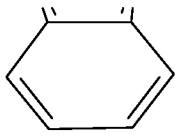

4 [D1—O—CH_2—Ph]

RN 667865-45-4 HCA
CN Copper, [1,8,15,22-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

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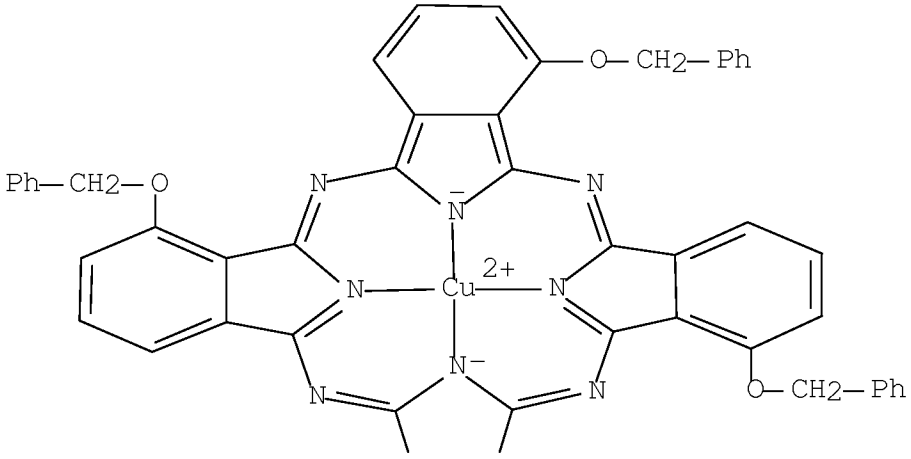

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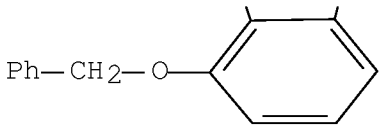

IT 227101-11-3 290821-67-9 667865-45-4
(photosensitive resin compn. comprising halogen-free colorant)
RE
(1) Anon; US 20020136986 A1
(2) Anon; US 5009982 A HCA
(3) Anon; US 5789137 A HCA

L25 ANSWER 2 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 140:243677 HCA Full-text
TI Liquid crystal display and color filter with improved transparency for green light
IN De Keyzer, Gerardus; Yousaf, Taher; Ekkundi, Vadiraj Subbanna; Mudaliar, Chandrasekhar Dayal
PA Ciba Specialty Chemicals Holdings Inc., Switz.

SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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OS MARPAT 140:243677

AB The invention relates to novel liq. crystal displays comprising a broad backlight emission around 530 nm and a green color filter contg. a phthalocyanine colorant, most adequately tetrahydroxy- or tetraalkoxy-substituted but lacking solubilizing groups. The purpose of the invention is to provide a liq. crystal display having better transmittance for green light and efficient absorption for red light (particularly from 600-620 nm), with a steep slope between green and red as well as good light stability.

IT 227101-11-3P 667865-45-4P
(liq. crystal display and color filter with improved transparency for green light)

RN 227101-11-3 HCA

CN Copper, [2,9,16,23-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

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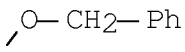

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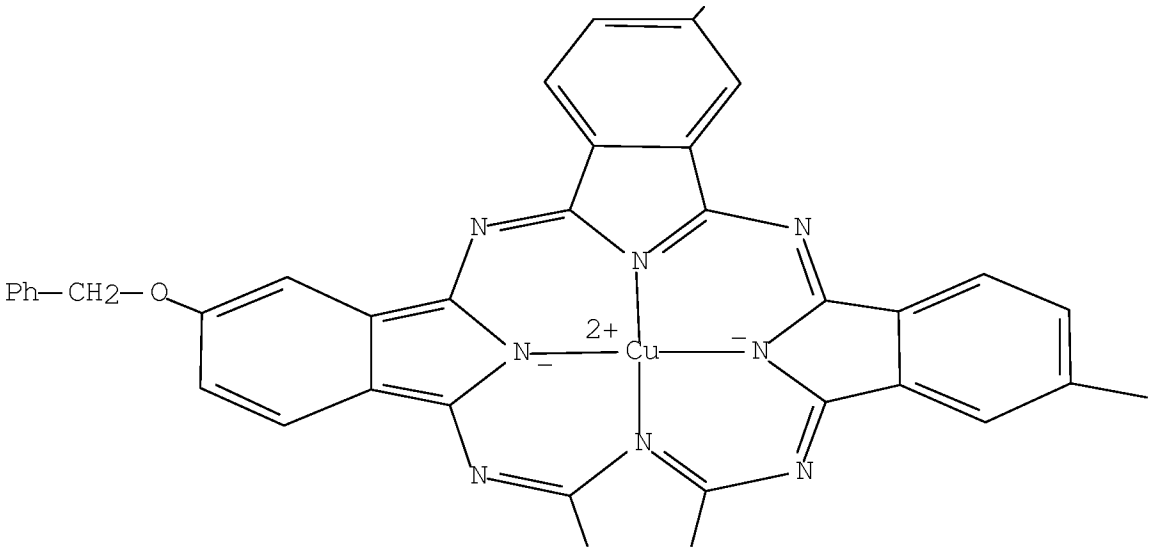

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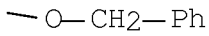

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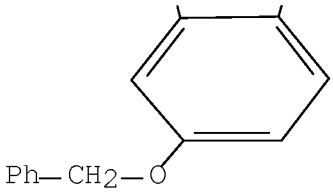

RN 667865-45-4 HCA
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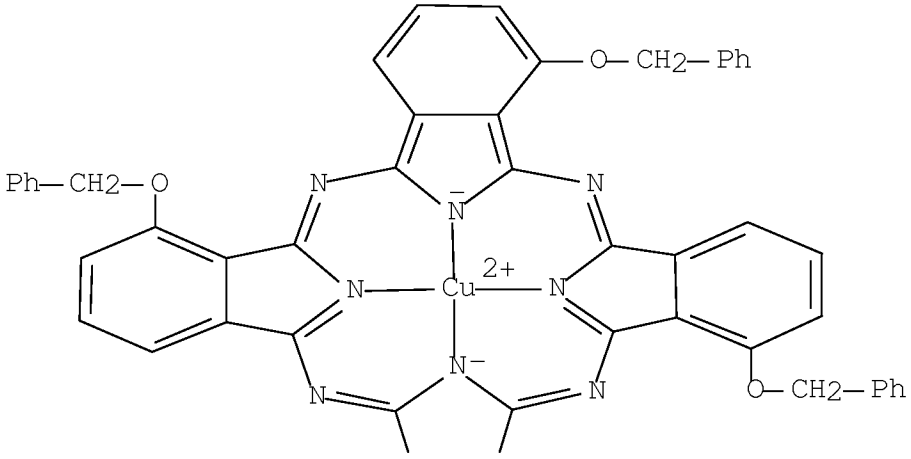

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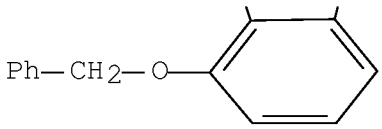

IT 227101-11-3P 667865-45-4P
(liq. crystal display and color filter with improved transparency for green light)

RE
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(2) Anon; EP 0519423 A2 HCA
(3) Anon; EP 0531106 A1 CAPLUS
(4) Anon; EP 0896327 A1 HCA
(5) Anon; EP 0965874 A2 HCA
(6) Anon; EP 1168048 A1 CAPLUS
(7) Anon; WO 9526381 A1 HCA

L25 ANSWER 3 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 133:209279 HCA Full-text

TI Phthalocyanine dyes for ink jet recording inks with good storage stability and resistance to light and water

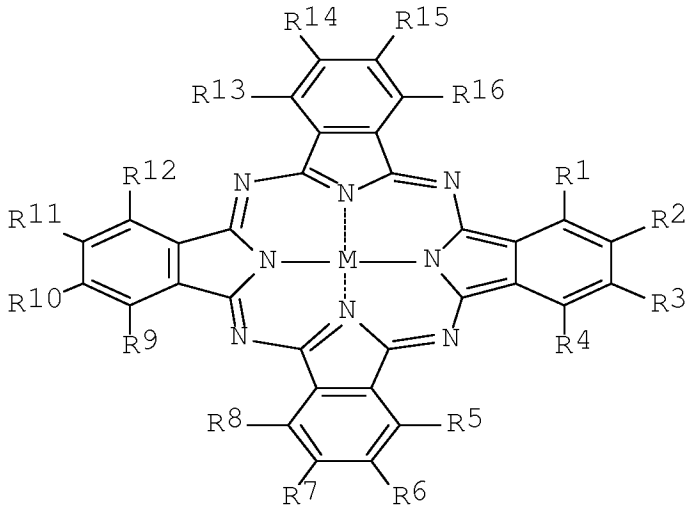
IN Matsuzaki, Yoriaki; Ohkuma, Tadashi; Ohi, Toru
PA Mitsui Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000239584	A	20000905	JP 1999-44512	19990223 <--

PRAI JP 1999-44512 19990223 <--
OS MARPAT 133:209279

GI



I

AB The inks contain phthalocyanine-type dyes I (R1-16 = H, halogen, alkyl, alkoxy, aryl, aryloxy, carboxylic acid ester, amide provided that R1-16 never be all H or halogen; M = 2 H atoms, divalent metals, substituted metals with 3-4 valency or their oxides). Thus, heating nitrobenzene 30 with urea 10.4 to 130°, combining with 5-(N,N-

diisopentylcarbamoyl)phthalic anhydride 4.1, ammonium molybdate tetrahydrate 0.3 and cupric chloride dihydrate 0.7 parts, and heating at 180° for 5 h gave a dye 10 parts of which was mixed with a polyester binder 100, MEK 150, THF 150 and water 600 parts, filtered, devolatilized and adjusted to 20% solid concn. with water to give an ink dispersion contg. particles with diam. 0.2 μm and good printability.

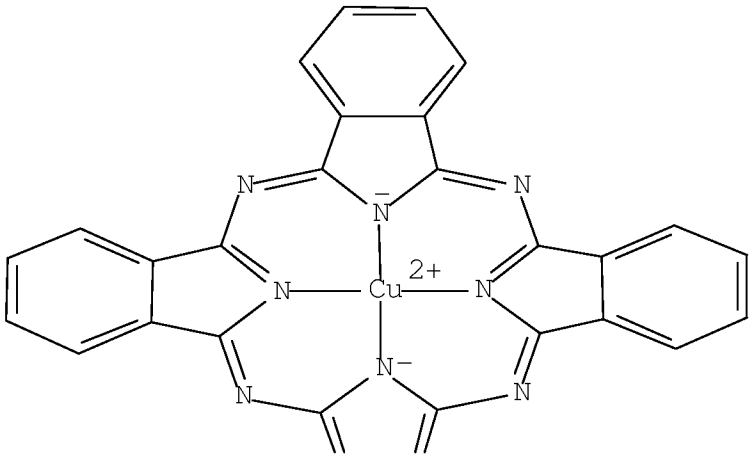
IT 290821-67-9

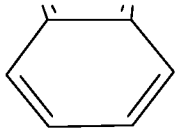
(dyes; manuf. of phthalocyanine dyes for ink jet recording inks with good storage stability and resistance to light and water)

RN 290821-67-9 HCA

CN Copper, [C,C,C,C-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]- (9CI) (CA INDEX NAME)

PAGE 1-A





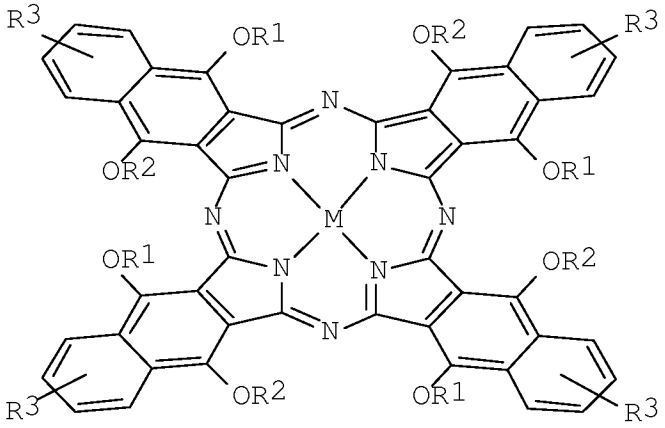
4 [D1—O—CH2—Ph]

IT 290821-67-9
(dyes; manuf. of phthalocyanine dyes for ink jet recording inks with good storage stability and resistance to light and water)

L25 ANSWER 4 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 133:10980 HCA Full-text
TI Electrophotographic toner containing near-IR absorber
IN Matsuzaki, Yoriaki; Ohi, Toru
PA Mitsui Chemicals Inc., Japan; Yamamoto Chemicals Inc.
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000147824	A	20000526	JP 1998-316467	19981106 <--

PRAI JP 1998-316467 19981106 <--
OS MARPAT 133:10980
GI



I

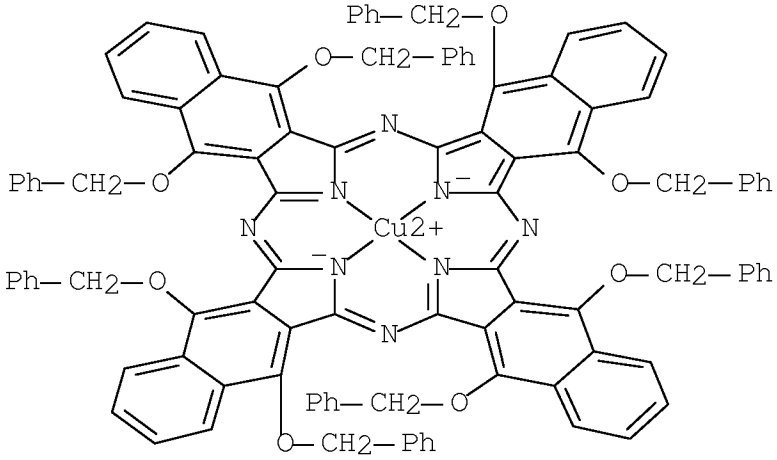
AB The electrophotog. toner contains a near-IR absorber represented by I (R1,2 = alkyl; R3 = H, nitro; R4,5 = H, alkyl, aryl, etc.; M = 2 H atoms, divalent metal atom, tri- or tetravalent metal, oxymetal). The toner is used for a flash fixing, and the near-IR absorber provides excellent optical-to-thermal conversion efficiency.

IT **270583-07-8 270583-08-9**
(electrophotog. toner contg. near-IR absorber)

RN 270583-07-8 HCA

CN Copper, [C,C,C,1-tetranitro-5,9,14,18,23,27,32,36-octakis(phenylmethoxy)-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-κN37,κN38,κN39,κN40]- (9CI) (CA INDEX NAME)

PAGE 1-A



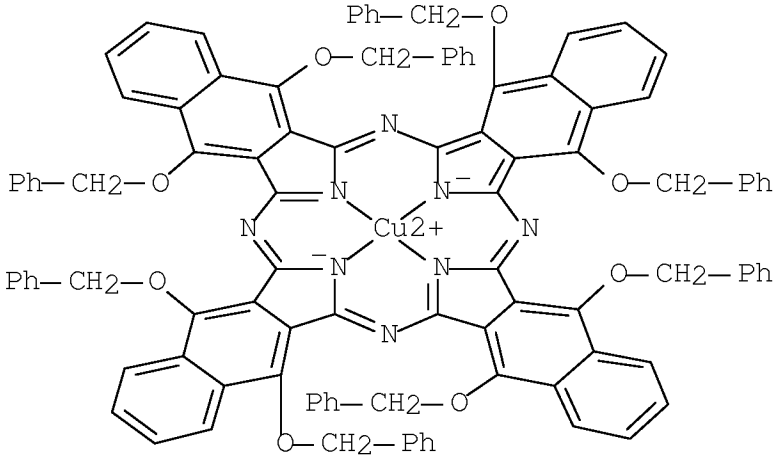
PAGE 2-A

4 [D1— NO2]

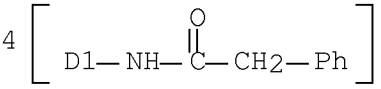
RN 270583-08-9 HCA

CN Copper, [[N,N',N'',N'''-[5,9,14,18,23,27,32,36-octakis(phenylmethoxy)-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazine-C,C,C,1-tetrayl-κN37,κN38,κN39,κN40]tetrakis[benzeneacetamidato]](2-)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IT 270583-07-8 270583-08-9
(electrophotog. toner contg. near-IR absorber)

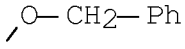
L25 ANSWER 5 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 131:52320 HCA Full-text
TI Mesomorphism of tetra-4-alkoxy- and tetra-4-aryloxy-substituted phthalocyanines of copper
AU Bykova, V. V.; Usol'tseva, N. V.; Anan'eva, G. A.; Shaposhnikov, G. P.; Maizlish, V. E.
CS Ivanov. Gos. Univ., Russia
SO Izvestiya Akademii Nauk, Seriya Fizicheskaya (1998), 62(8), 1647-1651
CODEN: IRAFEO; ISSN: 1026-3489
PB Nauka
DT Journal
LA Russian

AB The synthesis and thermotropic and lyotropic mesomorphism of copper complexes of alkoxy- and aryloxy-substituted phthalocyanines were investigated. In org. solvents (chloroform and dimethylformamide) [tetrakis[4-(4-phenylazo)phenoxy]phthalocyaninato]copper and [tetrakis(4-benzyloxy)phthalocyaninato]copper form at room temp. lyomesophase textures of chromonic type [schlieren (N-phase) and spheroidal (M-phase)], although thermotropic mesomorphism was not obsd.

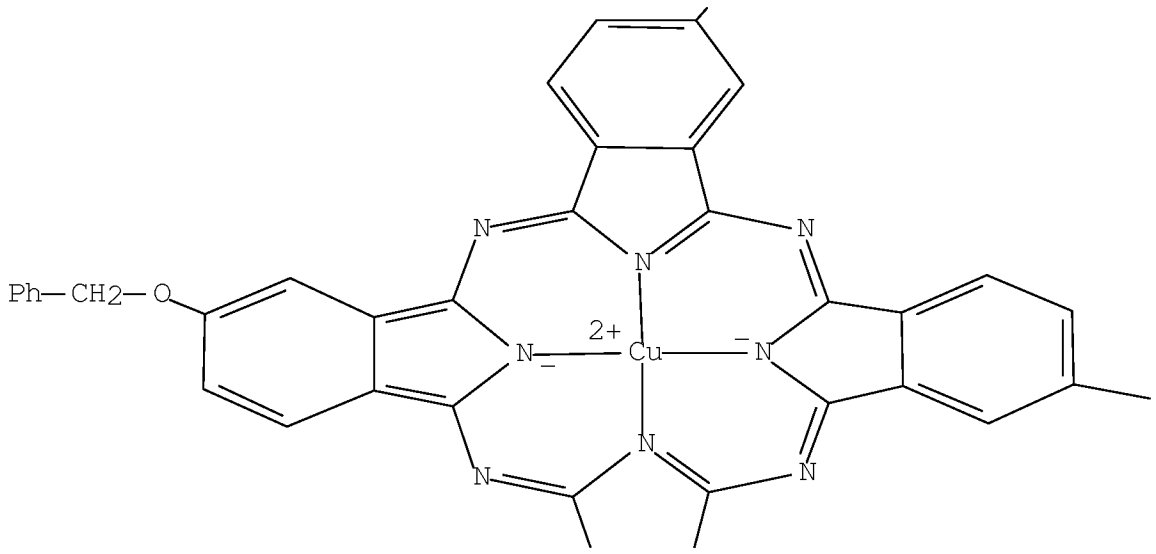
IT 227101-11-3P
(prepn. and lyotropic liq. crystal properties with DMF)

RN 227101-11-3 HCA

CN Copper, [2,9,16,23-tetrakis(phenylmethoxy)-29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

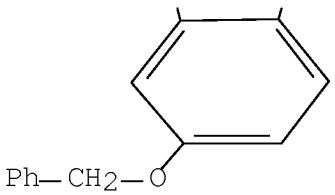


PAGE 2-A



PAGE 2-B

—O—CH2—Ph



IT 227101-11-3P
(prepn. and lyotropic liq. crystal properties with DMF)

L25 ANSWER 6 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 126:48352 HCA Full-text
OREF 126:9527a,9530a
TI Dyes for color filters, and photosensitive resin compositions containing them
IN Itoh, Hisato; Karasawa, Akio; Sugimoto, Kenichi
PA Mitsui Toatsu Chemicals, Inc., Japan
SO U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 987,960, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5578419	A	19961126	US 1994-223605 <--	19940406
	US 5789137	A	19980804	US 1996-653252 <--	19960524
	US 5948597	A	19990907	US 1998-87845 <--	19980601
	US 6306550	B1	20011023	US 1999-344350 <--	19990625
PRAI	JP 1991-328474	A	19911212 <--		
	US 1992-987960	B2	19921211 <--		

US 1994-223605 A3 19940406 <--
US 1996-653252 A3 19960524 <--
US 1998-87845 A3 19980601 <--

OS MARPAT 126:48352

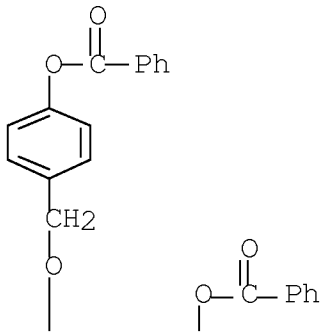
AB Dyes suitable for use in the fabrication of color filters are represented by D(AYn1)n2, where D represents a chromophoric (di)phenoxy- or (phenylthio)anthraquinone nucleus, A denotes a connecting group, Y is a photopolymerizable group having one of several specified structures, n1 is 1-10,000, and n2 is 1-10. Thus, 1-amino-4-hydroxy-2-(p-tolyloxy)anthraquinone was condensed with N-(chloromethyl)-2-phenylmaleimide in C2H4Cl2 in the presence of ZnCl2 to give a dye with λmax 512 nm.

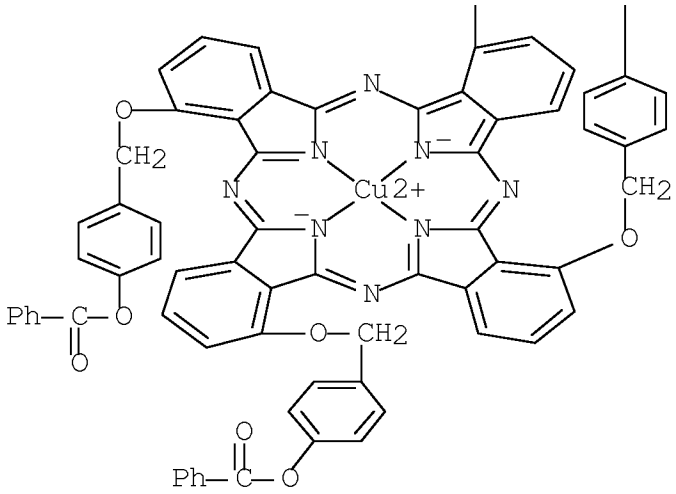
IT 151605-29-7P
(dyes for color filters and photosensitive resin compns. contg. them)

RN 151605-29-7 HCA

CN Copper, [[29H,31H-phthalocyanine-1,8,15,22-tetrayltetrakis(oxymethylene-4,1-phenylene) tetrabenzoato](2-)-N29,N30,N31,N32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

PAGE 1-A





IT 151605-29-7P
(dyes for color filters and photosensitive resin compns. contg. them)

RE
(1) Anon; EP 0098522 A2 HCA
(2) Anon; EP 0168694 A1 HCA
(3) Anon; EP 0300770 A2 HCA
(4) Anon; EP 0359934 A1 HCA
(5) Anon; EP 0371398 A2 HCA
(6) Anon; GB 2038849 A HCA
(7) Anon; US 3627472 A HCA
(8) Anon; US 4132841 A HCA
(9) Anon; US 4614521 A HCA
(10) Anon; US 4808501 A
(11) Anon; US 5212027 A

L25 ANSWER 7 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 120:41990 HCA Full-text
OREF 120:7549a,7552a
TI Dyes for color filters, photosensitive resist resin compositions containing the same, and color filters
IN Karasawa, Akio; Itoh, Hisato; Sugimoto, Kenichi
PA Mitsui Toatsu Chemicals, Inc., Japan
SO Eur. Pat. Appl., 38 pp.
CODEN: EPXXDW
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 546856	A2	19930616	EP 1992-311343	19921211 <--
	EP 546856	A3	19940525		
	EP 546856	B1	20010822		
	R: DE, FR, GB, NL				
	JP 05271567	A	19931019	JP 1992-327842	19921208 <--
	EP 832942	A2	19980401	EP 1997-118306	19921211 <--
	EP 832942	A3	20000531		
	R: DE, FR, GB, NL				
PRAI	JP 1991-328474	A	19911212 <--		
	EP 1992-311343	A3	19921211 <--		

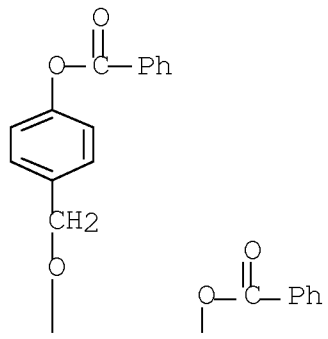
AB Dyes suitable for use in the fabrication of color filters contain one or more photopolymerizable substituents which may preferably be represented by the following formula: D-(A-Yn1)n2 wherein D represents a chromophoric nucleus, A denotes a connecting group, Y means the photopolymerizable group, n1 is 1-10000, and n2 stands for an integer of 1-10. Also described are photosensitive resist resin compns. contg. the dyes as well as color filters fabricated by curing the photosensitive resist resin compns.

IT 151605-29-7
(photopolymerizable dye)

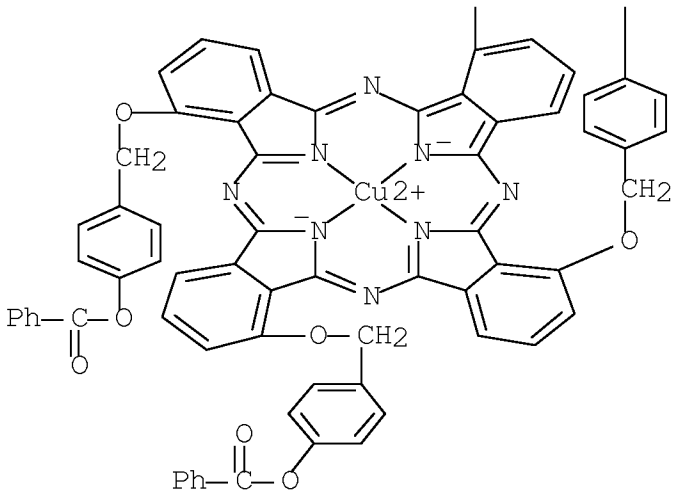
RN 151605-29-7 HCA

CN Copper, [[29H,31H-phthalocyanine-1,8,15,22-tetrayltetrakis(oxymethylene-4,1-phenylene) tetrabenzoato](2-)-N29,N30,N31,N32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

PAGE 1-A

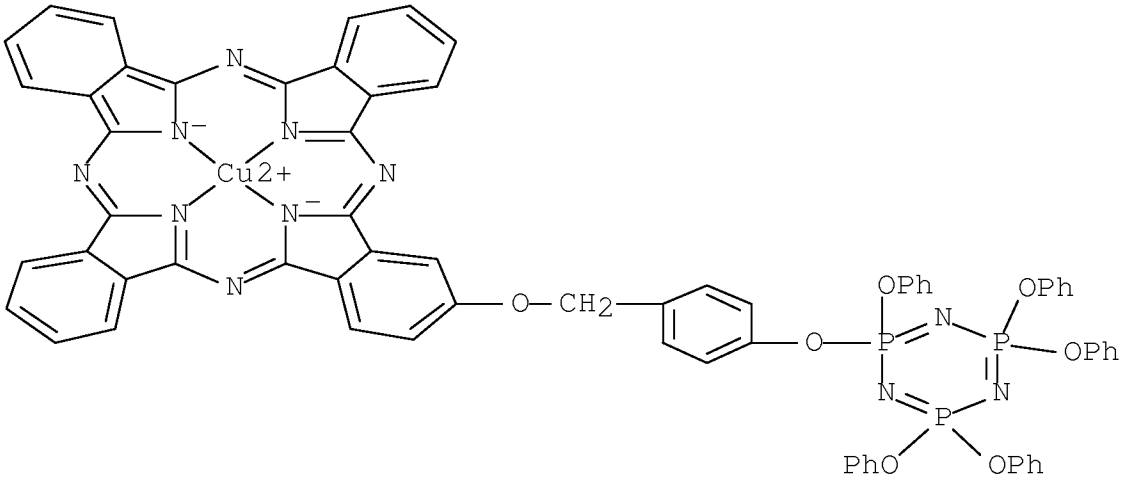


PAGE 2-A



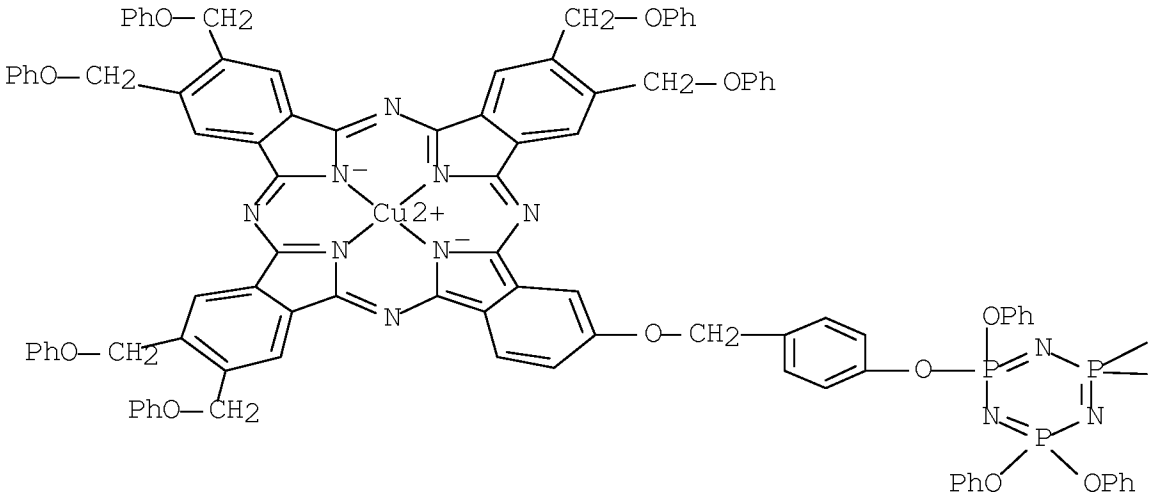
IT 151605-29-7
(photopolymerizable dye)

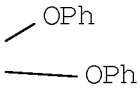
L25 ANSWER 8 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 105:24734 HCA Full-text
OREF 105:4175a,4178a
TI Synthesis of polyphosphazenes bearing covalently linked copper phthalocyanine units
AU Allcock, Harry R.; Neenan, Thomas X.
CS Dep. Chem., Pennsylvania State Univ., University Park, PA, 16802, USA
SO Macromolecules (1986), 19(6), 1495-501
CODEN: MAMOBX; ISSN: 0024-9297
DT Journal
LA English
AB Sol. poly(organophosphazenes) bearing covalently bound Cu phthalocyanine side groups were synthesized. The synthesis pathway involved the prepn. of a high-mol.-wt. poly[bis(aryloxy)phosphazene] in which 90% of the side groups were phenoxy and 10% were o-dicyanoaryl units. Condensation of this species with a large excess of phthalonitrile, 1,2-dimethyl-4,5-dicyanobenzene [36360-43-7], 1,2-dicyano-4,5-bis(phenoxymethyl)benzene, or 4,5-bis[(methoxyethoxy)methyl]-1,2-dicyanobenzene in DMF and in the presence of CuBr yielded open-chain polymers with phthalocyanine side groups covalently linked to the phosphazene chain. On the basis of UV/visible spectral data, the polymeric phthalocyanines did not aggregate in a variety of solvents. The synthesis of small-mol., cyclic trimeric model analogs of these polymers was accomplished. The solubilities of these small-mol. cyclotriphosphazenyl phthalocyanines are much higher than those of the free phthalocyanines. The elec. conductivities of the iodine-doped trimeric and high-polymeric species, both as compressed pellets and as thin films, were in the range of 10-4 Ω-1 cm-1 for the cyclic trimers and 10-5-10-8 Ω-1 cm-1 for the high polymers.
IT 101695-56-1P 101695-57-2P 101695-58-3P
(prepn. of, as model for copper phthalocyanine-contg. poly(dichlorophosphazene))
RN 101695-56-1 HCA
CN Copper, [2,2,4,4,6,6-hexahydro-2,2,4,4,6-pentaphenoxy-6-[4-[(29H,31H-phthalocyanin-2-yloxy)methyl]phenoxy]-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)- (9CI) (CA INDEX NAME)



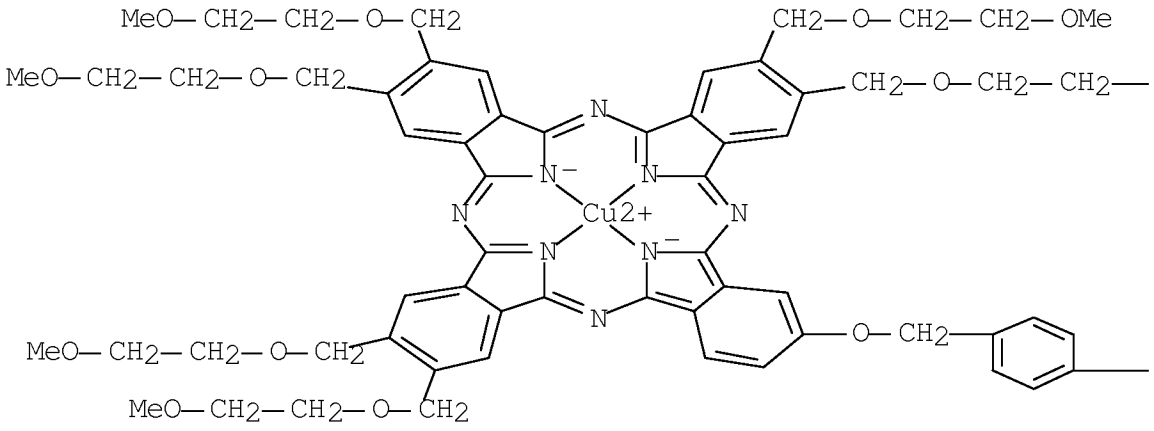
RN 101695-57-2 HCA

CN Copper, [2-[4-[[[9,10,16,17,23,24-hexakis(phenoxymethyl)-29H,31H-phthalocyanin-2-yl]oxy]methyl]phenoxy]-2,2,4,4,6,6-hexahydro-2,4,4,6,6-pentaphenoxy-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)- (9CI) (CA INDEX NAME)

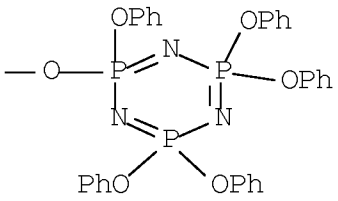




RN 101695-58-3 HCA
CN Copper, [2-[4-[[[9,10,16,17,23,24-hexakis[(2-methoxyethoxy)methyl]-29H,31H-phthalocyanin-2-yl]oxy]methyl]phenoxy]-2,2,4,4,6,6-hexahydro-2,4,4,6,6-pentaphenoxy-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)- (9CI) (CA INDEX NAME)



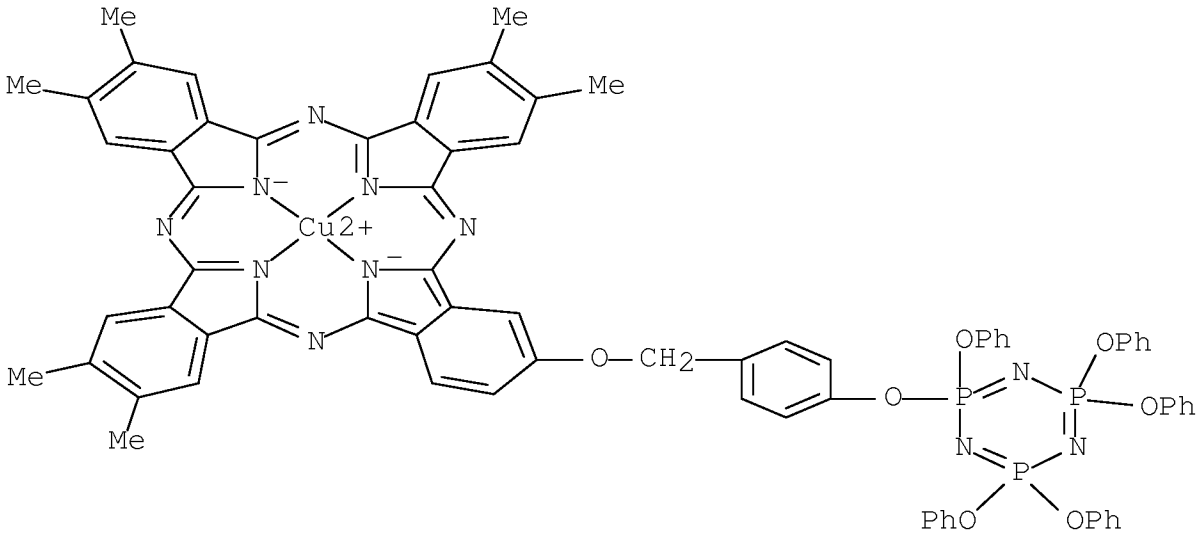
—— OMe



IT 101695-54-9P
(prepn. of, as model for copper phthalocyanine-contg. polyphosphazenes)

RN 101695-54-9 HCA

CN Copper, [2-[4-[[(9,10,16,17,23,24-hexamethyl-29H,31H-phthalocyanin-2-yl)oxy]methyl]phenoxy]-2,2,4,4,6,6-hexahydro-2,4,4,6,6-pentaphenoxy-1,3,5,2,4,6-triazatriphosphorinato(2-)-N29,N30,N31,N32]-, (SP-4-2)-(9CI) (CA INDEX NAME)



IT 101695-56-1P 101695-57-2P 101695-58-3P
(prepn. of, as model for copper phthalocyanine-contg. poly(dichlorophosphazene))
IT 101695-54-9P
(prepn. of, as model for copper phthalocyanine-contg. polyphosphazenes)

L25 ANSWER 9 OF 9 HCA COPYRIGHT 2009 ACS on STN
AN 63:17298 HCA Full-text
OREF 63:3083g-h,3084a-c
TI Water-soluble dyes containing halopyrimidyloxymethyl groups
IN Ischer, Hans; Siegrist, Hans
PA Sandoz Ltd.
SO 20 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 990974		19650505	GB 1961-17477	196105 12
	DE 1218636			DE <--	
PRAI	CH		19600513 <--		

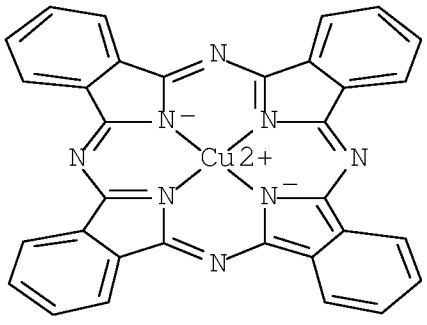
GI For diagram(s), see printed CA Issue.
AB Water-sol. pyrimidine dyes of the general formula I, where Y is N:N, SO2NH, CONH, or NH, Q is the radical of a water-sol. dye, Z is chloro- or dichloropyrimidinyl, and X is Me or Cl, were synthesized and dyed cotton and wool fibers with good fastness. For example, 18.3 parts 2,4,6-trichloropyrimidine (II) in 22 parts PhMe was added dropwise to 12.3 parts 3-H2NC6H4CH2OH (III) in 150 parts H2O and 42 parts 30% NaOH at 2°. Stirring was continued at 0-3° for 10-15 hrs., then 35.5 parts 30% HCl was added. The resulting ppt. of 3-amino-1-(dichloropyrimidyloxymethyl)benzene (IV) was dried in vacuo at 35-40° and 13.5 parts was diazotized and coupled with 16.2 parts 1-(2',5'-dichlorophenyl)-3-methyl-5-pyrazolone-4'- sulfonic acid (V). After coupling, the pH was made acid with HCl and the resulting dye (VI), a yellow, water-sol. powder, was filtered. It dyed wool, silk, and cellulosic fibers greenish yellow shades with good fastness. VI was also prepd. by coupling diazotized III with V and then condensing the resulting dye with II. Similarly, other azo dyes (VII, Z = dichloropyrimidyl) were prepd. (RH, X, Y, and shade on cotton or wool given): 1,8,3,6-BzNH(HO)C10H4(SO3H)2, H, H, red; 1,3,6-

HOC10H5(SO3Na)2, H, H, orange-red; 1,4,6-HOC10H5(SO3Na)2(VIII), H, H, scarlet (a similar dye was prepd. using 2,4-dichloropyrimidine in place of II); VIII, H, Me, scarlet; VIII, Cl, H; red; 2,6,8-HOC10H5(SO3H)2, Me, H, orange. A turquoise dye was obtained by condensing Cu phthalocyaninetetrasulfonyl chloride with 1 mole IV at 20-75°, pH 5-5.5 and sapong. the remaining sulfonyl chloride groups. 1-Amino-4-(2,4,6-trimethylanilino)anthraquinone-2-sulfonic acid was treated with SO2Cl2 in ClSO3H at 50-5° and the product condensed with IV, yielding a brilliant blue dye. 2,4,8-H2NC10H5(SO3H)2 → 2,6-HOC10H6SO2NHC6H4CH2OH-3 (IX) was condensed with II, yielding a red dye. Also, III was condensed with 4-AcNHC6H4SO2Cl and the product deacetylated to give 4-H2NC6H4SO2NHC6H4CH2OH-3 which was diazotized and coupled with 1,3,6,8-HOC10H4(SO3Na)3 and then condensed with II, yielding a red dye. 4,3-Cl(H2N)C6H3CH2OH was prepd. by treating o-ClC6H4NO2 with (ClCH2)2O, hydrolyzing the 4,3-Cl(O2N)C6H3CH2OMe to 4,3-Cl(O2N)C6H3CH2OH and reducing the nitro group. 3- and 4-H2NC6H4CONHC6H4CH2OH were prepd. by acylating III with 3- or 4-O2NC6H4COCl and reducing. IX was prepd. by treating 2,6-PhSO3C10H6SO3Na with POCl3 at 100-20°, condensing the sulfonyl chloride with III and sapong. the benzenesulfonate group.

IT **31277-81-3P**, Copper, [trihydrogen [[α-[(dichloropyrimidinyl)oxy]-m-tolyl]sulfamoyl]phthalocyaninetrisulfonato(2-)]-
(prepn. of)

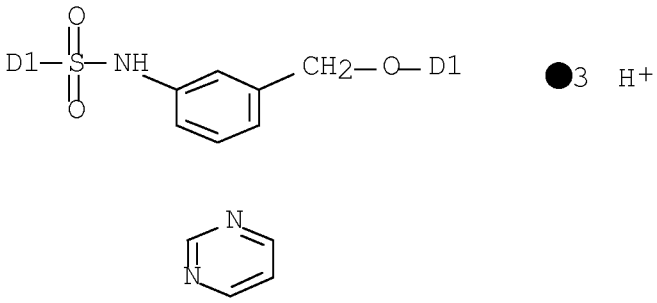
RN 31277-81-3 HCA

CN Cuprate(3-), [C-[[[3-[[(dichloropyrimidinyl)oxy]methyl]phenyl]amino]sulfonyl]-29H,31H-phthalocyanine-C,C-disulfonato(5-)-N29,N30,N31,N32]-, trihydrogen (9CI) (CA INDEX NAME)



3 [D1— SO_3^-]

2 (D1—Cl)



IT **31277-81-3P**, Copper, [trihydrogen [[α-[(dichloropyrimidinyl)oxy]-m-tolyl]sulfamoyl]phthalocyaninetrisulfonato(2-)]-
(prepn. of)

(FORMULA 3)

=> D L40 1-7 BIB ABS HITSTR HITIND RE

L40 ANSWER 1 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 141:44857 HCA Full-text
TI **Photosensitive resin composition** comprising halogen-free colorant
IN Oka, Hidetaka; Adam, Jean-Marie
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004049070	A2	20040610	WO 2003-EP50849	20031119
				<--	
	WO 2004049070	A3	20040722		
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	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2507471	A1	20040610	CA 2003-2507471	20031119
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	AU 2003298293	A1	20040618	AU 2003-298293	20031119
				<--	
	EP 1565789	A2	20050824	EP 2003-796025	20031119
				<--	
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
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	CN 1717627	A	20060104	CN 2003-80104325	20031119
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	JP 2006508381	T	20060309	JP 2004-554539	20031119

				<--	
	US 20050282923	A1	20051222	US 2005-535373	200505 19
				<--	
	MX 2005005682	A	20050726	MX 2005-5682	200505 27
				<--	
	IN 2005CN01406	A	20070803	IN 2005-CN1406	200506 24
				<--	
PRAI	EP 2002-406035	A	20021128	<--	
	WO 2003-EP50849	W	20031119		

OS MARPAT 141:44857

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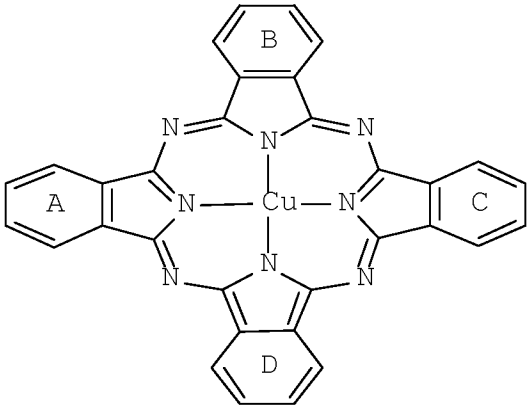


I

AB The present invention relates to a **photosensitive resin** compn. for **solder resists** comprising as a component (A) a green colorant of the formula I (rings A, B, C and D are substituted by hydroxy or by moiety; R, R2 = H, C1-4-alkyl; n = 0-3; ring E = unsubstituted or

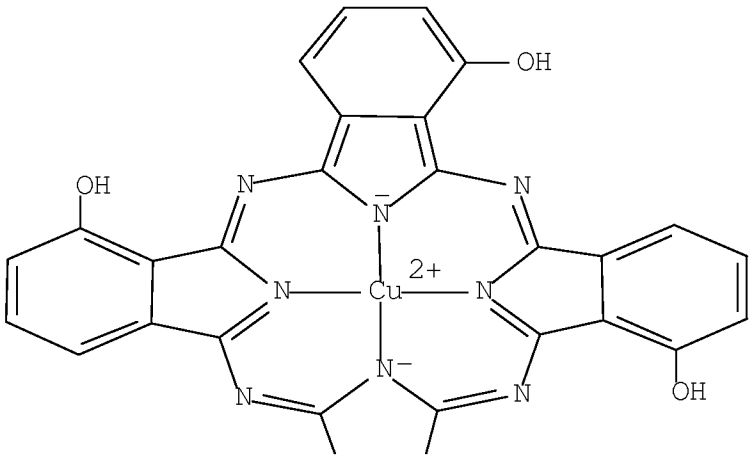
substituted by C1-6-alkyl, C1-6-alkoxy, hydroxy, NHCOR3, NHSO2, R4 or SO2NHR5; R3, R4, R5 = C1-4-alkyl; Ph); as a component (B) an alkali sol. oligomer or polymer reactive or unreactive; as a component (C) a polymerizable monomer; as a component (D) a photoinitiator; as a component (E) an epoxy compd.; and also, if desired, as a component (F) further additives. The **photosensitive** compn. can be used as **solder resist**, etching **resist** or plating **resist** in the manuf. of printed circuit boards. The inventive **solder resist** comprising a single green pigment that maintains qualities required as a green coloring material, such as clear hue, good weather- and heat resistance and that is satisfactory at the same time in the points of environmental pollution, has not been found yet in the present state of the art.

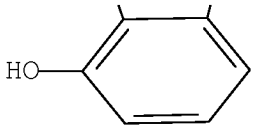
IT **20468-22-8 21707-33-5 29696-46-6**
(**photosensitive resin** compn. comprising halogen-free colorant)

RN 20468-22-8 HCA

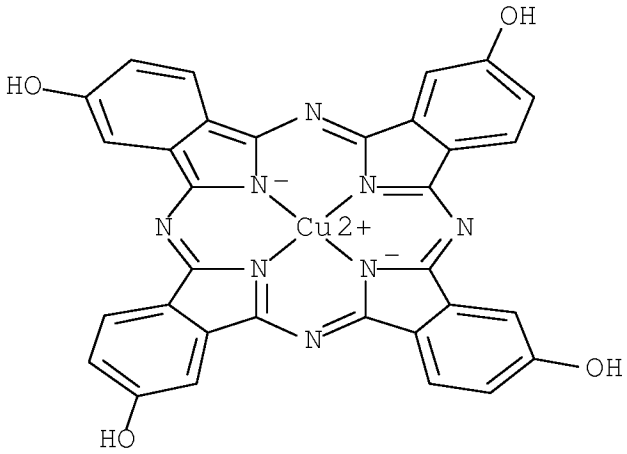
CN Copper, [29H,31H-phthalocyanine-1,8,15,22-tetrolato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

PAGE 1-A



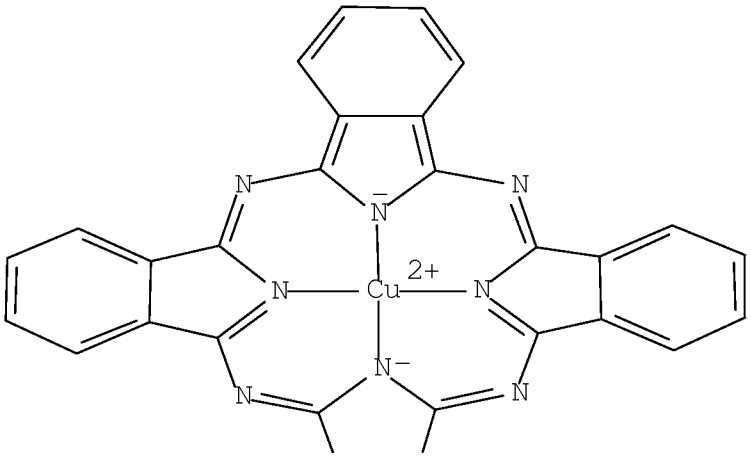


RN 21707-33-5 HCA
CN Copper, [29H,31H-phthalocyanine-2,9,16,23-tetrolato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)



RN 29696-46-6 HCA
CN Copper, [29H,31H-phthalocyanine-C,C,C,C-tetrolato(2-)-κN29,κN30,κN31,κN32]- (9CI) (CA INDEX NAME)

PAGE 1-A



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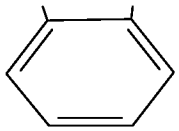


4 (D1—OH)

IC ICM G03F007-027
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **photoresist solder resist** printed circuit board compn **photosensitive resin**
IT **Solder resists**
(**photosensitive resin** compn. comprising halogen-free colorant)
IT 5495-84-1, Quantacure ITX **20468-22-8** **21707-33-5** 29570-58-9, DPHA **29696-46-6** 71868-10-5, Irgacure 907 155575-69-2, GY 1180 227101-11-3 290821-67-9 667865-45-4

671791-90-5, EA-6340
(photosensitive resin compn. comprising halogen-free colorant)

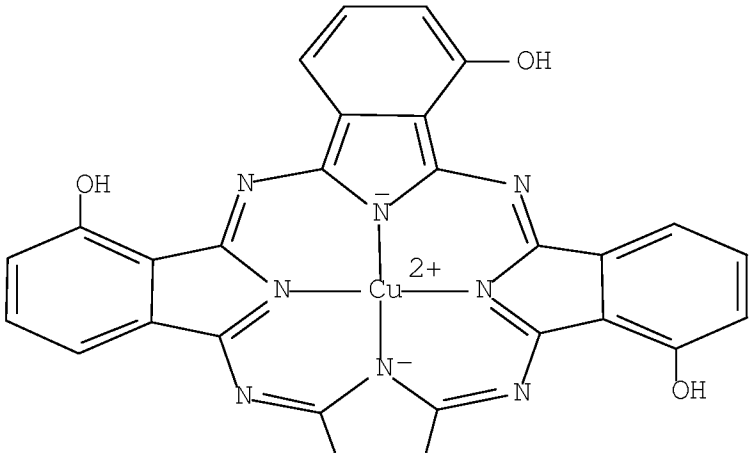
RE
(1) Anon; US 20020136986 A1
(2) Anon; US 5009982 A HCA
(3) Anon; US 5789137 A HCA

L40 ANSWER 2 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 137:312357 HCA Full-text
TI Manufacture of sulfonyloxylated phthalocyanine compounds with good solvent solubility and light sensitivity
IN Oishi, Takao; Yashiro, Toru; Taniguchi, Masatoshi; Narizuka, Toshiro; Aoi, Hironao
PA Ricoh Co., Ltd., Japan; Yamada Chemical Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002309119	A	20021023	JP 2001-118841	20010417 <--

PRAI JP 2001-118841 20010417 <--
OS MARPAT 137:312357
AB The title compds. useful for optical recording such as CD-R application, are obtained from specific metal phthalocyanine compds. bearing arenesulfonyloxylated groups on the arom. rings. Thus, adding 0.41 g a 60% oil suspension of NaH 0.41 to a mixt. of 0.75 g α,α,α,α-tetrahydroxyvanadyl phthalocyanine and 10 mL dry THF, mixing for 10 min at 40°, adding 2.52 g 4-(trifluoromethyl)benzenesulfonyl chloride and mixing at 50-55° for 120 h gave a pigment.
IT 20468-22-8P
(intermediate; manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and light sensitivity)
RN 20468-22-8 HCA
CN Copper, [29H,31H-phthalocyanine-1,8,15,22-tetrolato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (9CI) (CA INDEX NAME)

PAGE 1-A



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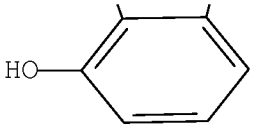


IC ICM C09B047-24
ICS B41M005-26; C07D487-22; G11B007-24

CC 41-7 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 76

IT Optical ROM disks
(manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT Transition metal complexes
(phthalocyanine, arenesulfonyloxylated compds.; manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT Metallophthalocyanines
(transition metal complexes, arenesulfonyloxylated compds.;

manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT 19056-23-6P, 3-Methoxyphthalonitrile **20468-22-8P** 80345-84-2P 158621-02-4P 160988-54-5P 473254-09-0P 473254-10-3P
(intermediate; manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT 473253-97-3P 473253-98-4P 473254-00-1P 473254-01-2P 473254-02-3P 473254-03-4P 473254-04-5P 473254-05-6P 473254-06-7P 473254-07-8P 473254-08-9P
(manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

IT 67-56-1, Methanol, reactions 98-09-9, Benzenesulfonyl chloride 98-59-9, p-Toluenesulfonyl chloride 98-60-2, 4-Chlorobenzenesulfonyl chloride 773-64-8, 2,4,6-Trimethylbenzenesulfonyl chloride 2991-42-6, 4-(Trifluoromethyl)benzenesulfonyl chloride 6553-96-4, 2,4,6-Triisopropylbenzenesulfonyl chloride 7447-39-4, Copper chloride, reactions 7646-85-7, Zinc chloride, reactions 7718-98-1, Vanadium trichloride 15084-51-2, 4-tert-Butylbenzenesulfonyl chloride 51762-67-5, 3-Nitrophthalonitrile 244763-85-7 473254-11-4
(manuf. of sulfonyloxylated phthalocyanine compds. with good solvent soly. and **light sensitivity**)

L40 ANSWER 3 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 133:244985 HCA Full-text
TI Molecular orientation-photoconductivity relationship study of phthalocyanine polymer-oriented thin films
AU Chen, Hong-Zheng; Wang, Mang; Yang, Shi-Lin
CS Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, Peop. Rep. China
SO Journal of Applied Polymer Science (**2000**), 77(11), 2331-2339
CODEN: JAPNAB; ISSN: 0021-8995
PB John Wiley & Sons, Inc.
DT Journal
LA English
AB The mol. orientation-photocond. relationships of several kinds of phthalocyanine polymer (PPc)-oriented thin films have been studied in double-layered photoreceptor devices, where the charge-generation layers (CGLs) are phthalocyanine polymer-oriented thin films and the charge-transportation layers (CTLs) are composed of hole transporting materials of tetra-Ph benzidine or hydrazone. The oriented thin films contg. PPc dispersed in polyvinyl difluoride (PVDF) were prepd. by the elec. field orientation. The results showed that the

photosensitivities of the phthalocyanine polymer (PPcs)-oriented thin films were higher than those of the unoriented PPcs thin films, and varied with their mol. structures and the mol. stacking in the films. This was thought to be due to the mol. orientation effect, which was demonstrated by the analyses of the polarized fluorescence, DSC, FTIR reflection absorption spectroscopy (FTIR-RAS), and angle-dependent XPS.

IT 292832-89-4P 292832-90-7P
(mol. orientation-photocond. relationship study of phthalocyanine polyvinyl difluoride polymer-oriented thin films)

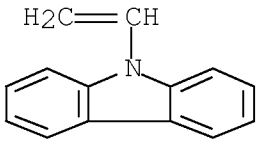
RN 292832-89-4 HCA

CN Copper, [15-(9-ethenyl-9H-carbazolyl)-8,22-dinitro-29H,31H-phthalocyanin-9-olato(2-)-κN29,κN30,κN31,κN32]-, polymer with acetonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 176050-69-4
CMF C46 H23 Cu N11 O5
CCI CCS, IDS

PAGE 1-A



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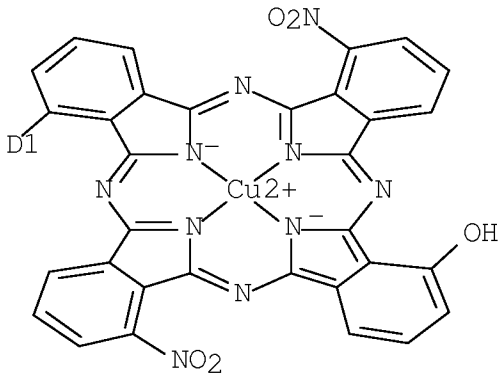
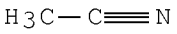


CM 2

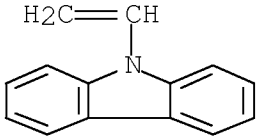
CRN 75-05-8
CMF C2 H3 N

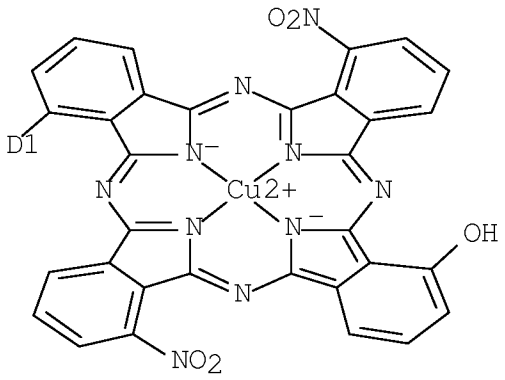


RN 292832-90-7 HCA
CN Copper, [15-(9-ethenyl-9H-carbazolyl)-8,22-dinitro-29H,31H-phthalocyanin-9-olato(2-)-κN29,κN30,κN31,κN32]-, polymer with 4-ethenylpyridine (9CI) (CA INDEX NAME)

CM 1

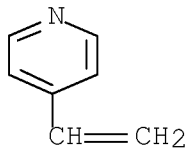
CRN 176050-69-4
CMF C46 H23 Cu N11 O5
CCI CCS, IDS





CM 2

CRN 100-43-6
CMF C7 H7 N



CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 76

IT 9003-05-8DP, reaction products with copper dinitrophthalocyaninediazonium salt 25067-59-8P, Polyvinylcarbazole 65670-15-7DP, reaction products with diazotized copper diaminodinitrophthalocyanine 146166-28-1DP, diazotized, reaction products with polyacrylamide and poly(acrylamide-vinylcarbazole) 292832-89-4P 292832-90-7P
(mol. orientation-photocond. relationship study of phthalocyanine polyvinyl difluoride polymer-oriented thin films)

RE
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(2) Anon; Jpn Kokai Tokkyl Koho JP 60,201,345
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L40 ANSWER 4 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 126:265228 HCA Full-text
OREF 126:51347a
TI Aqueous dye-terminated urethane- or acrylic polymeric pigment-dispersing agent for aqueous printing inks or paints, and pigment dispersion composition therefrom
IN Tadashi, Itabashi; Takashi, Kamikubo; Katsuhiko, Sawamura
PA Toyo Ink Manufacturing Co., Ltd., Japan
SO Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 763580	A2	19970319	EP 1996-114489	19960910
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	EP 763580	A3	20010228		
	EP 763580	B1	20030813		
	R: DE, GB				
	JP 09077986	A	19970325	JP 1995-232167	19950911
				<--	
	JP 09077988	A	19970325	JP 1995-232169	19950911
				<--	
	JP 3397014	B2	20030414		
	JP 09077991	A	19970325	JP 1995-238162	19950918
				<--	
	JP 3397017	B2	20030414		
	JP 09077993	A	19970325	JP 1995-238164	19950918
				<--	
	JP 09077995	A	19970325	JP 1995-238167	19950918
				<--	
	JP 09077985	A	19970325	JP 1995-238168	19950918
				<--	
	JP 09077996	A	19970325	JP 1995-238169	19950918
				<--	
	US 5854323	A	19981229	US 1996-712452	19960911
				<--	

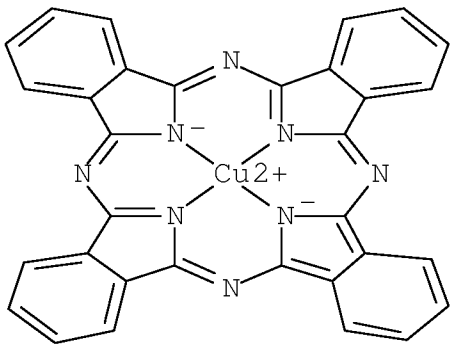
PRAI JP 1995-232167 A 19950911 <--
JP 1995-232169 A 19950911 <--
JP 1995-238162 A 19950918 <--
JP 1995-238164 A 19950918 <--
JP 1995-238167 A 19950918 <--
JP 1995-238168 A 19950918 <--
JP 1995-238169 A 19950918 <--

AB Aq. pigment-dispersion compn. for inks or paints, having improved dispersibility of pigment and adaptability, comprises a pigment-dispersing agent contg. an aq. linear urethane or acrylic polymer terminated with an org. dye, anthraquinone or acridone, a pigment and, optionally, an aq. resin. Thus, phthalocyanine-terminated polyurethane pigment dispersing agent (prepd. from dimethylolpropionic acid , polypropylene glycol, isophorone diisocyanate, isophorone diamine and copper phthalocyanine carboxylic acid) 1, pigment 5, water sol. acrylic resin (acrylic acid-2-hydroxyethyl methacrylate-Et methacrylate-Me methacrylate-vinyl acetate copolymer) 13 and melamine resin (Cymel 303) 6 parts, were blended to give a paint which was applied onto a PET film and baked at 140° for 30 min showing gloss (20° angel) 77.5%, compared to 34.0 for a sample without pigment dispersing agent.

IT **55946-69-5DP**, reaction product with isocyanate-terminated urethane polymer
(pigment-dispersing agent; aq. dye-terminated urethane- or acrylic polymeric pigment-dispersing agent for aq. printing inks or paints)

RN 55946-69-5 HCA

CN Copper, [29H,31H-phthalocyaninolato(2-)-κN29,κN30,κN31,κN32]- (9CI) (CA INDEX NAME)



D1—OH

IC ICM C09D017-00
ICS C09B067-00
CC 42-5 (Coatings, Inks, and Related Products)
IT 84-65-1DP, Anthraquinone, derivs., reaction product with amine-terminated urethane or acrylic polymer 117-78-2DP, 2-Anthraquinone carboxylic acid, reaction product with amine-terminated urethane polymer 117-79-3DP, 2-Amino-anthraquinone, reaction product with NCO-terminated urethane polymer 147-14-8DP, derivs., reaction product with amine- or OH-terminated urethane or amine-terminated acrylic polymer 1047-16-1DP, Quinacridone, derivs., reaction product with amine-terminated urethane or acrylic polymer 2381-23-9DP, 2-Anthraquinonesulfonyl chloride, reaction product with amine-terminated urethane or acrylic polymer 6470-87-7DP, 2-Anthraquinonecarbonyl chloride, reaction product with amine-terminated urethane or acrylic polymer 27918-14-5DP, 2-Amino-acridone, reaction product with NCO-terminated urethane polymer 55946-69-5DP, reaction product with isocyanate-terminated urethane polymer 59617-74-2DP, reaction product with isocyanate-terminated urethane polymer 67952-88-9DP, Dimethylolpropionic acid-isophorone diisocyanate-polypropylene glycol copolymer, terminated with org. dye, anthraquinone or acridone 188679-52-9DP, reaction product with diazotized urethane polymer 188679-53-0DP, reaction product with amine-terminated urethane or acrylic polymer 188679-54-1DP, terminated with org. dye, anthraquinone or acridone 188738-62-7DP, reaction product with amine-terminated urethane polymer 188738-63-8DP, reaction product with amine-terminated urethane polymer 188738-64-9DP, reaction product with amine-terminated acrylic polymer
(pigment-dispersing agent; aq. dye-terminated urethane- or acrylic polymeric pigment-dispersing agent for aq. printing inks or paints)

L40 ANSWER 5 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 124:179010 HCA Full-text
OREF 124:33157a,33160a
TI Coated pigments, their manufacture, and colorant compositions containing them
IN Ide, Yuusaku
PA Toyo Ink Manufacturing Co., Ltd., Japan
SO Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	EP 677556	A2	19951018	EP 1995-302439	199504 12
				<--	
	EP 677556	A3	19970226		
	R: DE, FR, GB				
	JP 07331101	A	19951219	JP 1995-89118	199504 14
				<--	
	JP 3740706	B2	20060201		
	US 5795376	A	19980818	US 1997-924650	199709 05
				<--	
PRAI	JP 1994-76922	A	19940415	<--	
	US 1995-421319	B1	19950413	<--	

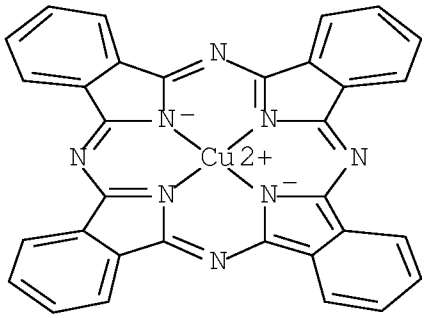
AB A coated pigment can be prepd. by: (a) prepg. a mixt. of water and a substantially water-insol. org. surface modifier; (b) introducing the mixt., under pressure, into a conduit having a diam.-decreased portion and a turning portion, providing accelerated flow through the diam.-decreased portion and mutual collision of the accelerated mixt. or collision of the accelerated mixt. against a wall of the conduit, thereby obtaining a homogeneous aq. dispersion of the surface modifier in water; (c) mixing the aq. dispersion with a pigment, thereby providing a pigment coated with the surface modifier; and (d) isolating the coated pigment. The coated pigments are useful in coatings, inks, and plastics. Thus, a 1:3 rosin-propylene oxide adduct was dispersed in water by passing their mixt. for 3 cycles through a Nanomizer at 80° and 1000 kg/cm2, and 10 parts of the resulting dispersion was mixed with 100 parts (solids) Cu phthalocyanine dispersion to give a coated pigment easily dispersible to form an offset ink with av. particle size <5 μm.

IT 175447-79-7
(pigment coatings by mech. dispersion of)

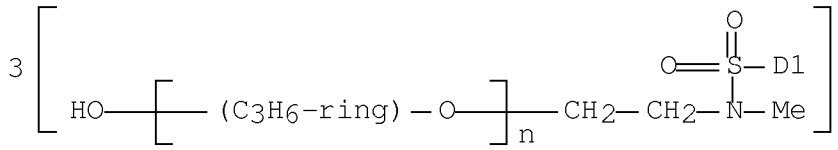
RN 175447-79-7 HCA

CN Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [N,N',N''-tris(2-hydroxyethyl)-N,N',N''-trimethyl-29H,31H-phthalocyanine-C,C,C-trisulfonamidato(2-)-N29,N30,N31,N32]copper (3:1) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



IC ICM C09B067-08
ICS C09C003-00; C09D017-00; B01F003-00
ICA C09D011-02
CC 42-6 (Coatings, Inks, and Related Products)
Section cross-reference(s): 37
IT 57-11-4, Octadecanoic acid, uses 100-42-5D, Styrene, polymers with acrylic monomers 107-64-2, Dimethyldistearylammonium chloride 111-20-6, Decanedioic acid, uses 124-22-1, Laurylamine 301-02-0, Oleamide 9003-07-0, Polypropylene 9003-53-6 12698-87-2, Rosinamine D 25087-26-7, Poly(methacrylic acid) 25233-30-1, Polyaniline 27924-99-8, Poly(12-hydroxystearic acid) 42739-64-0 79621-12-8, Tamanol 361 86753-81-3, Solsperse 17000 93971-95-0 111213-92-4, AT (ester gum) 113834-89-2, Byk 160 127595-95-3 172259-63-1, 2-Naphthalenecarboxylic acid, 3-hydroxy-4-[(4-methyl-2-sulfophenyl)azo]-, didodecyldimethylammonium salt (1:1) 172259-65-3 174205-17-5 175447-79-7 175447-80-0
(pigment coatings by mech. dispersion of)

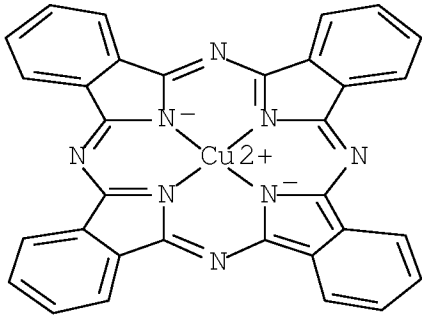
L40 ANSWER 6 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 121:46560 HCA Full-text

OREF 121:8235a,8238a
TI Carrier composition for electrostatographic developer
IN Hara, Takeshi; Arikawa, Akira; Ishikawa, Yoshibumi
PA Toyo Ink Mfg Co, Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05257328	A	19931008	JP 1992-89531 <--	19920313
	JP 2903850	B2	19990614		

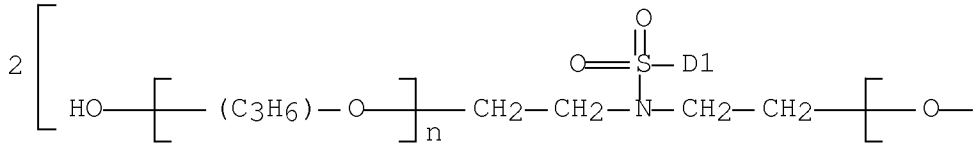
PRAI JP 1992-89531 19920313 <--
AB The title carrier compn. comprises a magnetic material and a phthalocyanine deriv. Pc(ANR'(CH2CHR2O)mH)n [Pc = phthalocyanine residue; A = CH2, CO, SO2, CH2NHCOCH2; R' = H, lower alkyl, (CH2CHR2O)k; R2 = H, Me; k, m = 1 - 30; n = 1 - 4] dispersed in a binder resin. This invention prevents carrier adhesion to the non-image areas.
IT 156029-43-5
(dispersing agent, electrophotog. carrier from)
RN 156029-43-5 HCA
CN Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [N,N,N',N'-tetrakis(2-hydroxymethylethyl)-29H,31H-phthalocyanine-C,C-disulfonamidato(2-)-N29,N30,N31,N32]copper (4:1) (9CI) (CA INDEX NAME)

PAGE 1-A

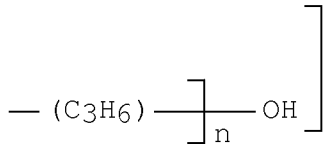


4 (D1—Me)

PAGE 2-A



PAGE 2-B



IC ICM G03G009-107
ICS C09B067-50
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
IT 156029-43-5

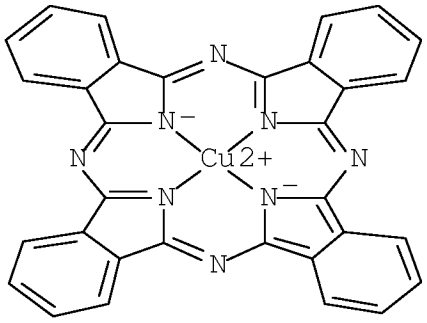
(dispersing agent, electrophotog. carrier from)

L40 ANSWER 7 OF 7 HCA COPYRIGHT 2009 ACS on STN
AN 91:58852 HCA Full-text
OREF 91:9551a,9554a
TI **Photocurable**, colored coating **compositions**
IN Takezawa, Nobuo; Kawabata, Keizo; Abe, Yoshio; Hosoda, Toru; Yoshida, Akio; Saikatsu, Hiroaki; Kanno, Toshiyuki
PA Dainichiseika Color and Chemicals Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54026887	A	19790228	JP 1977-92204 <--	19770802
JP 58023401	B	19830514		

PRAI JP 1977-92204 A 19770802 <--
AB The title compns. contained **photocurable**, film-forming **polymers** with functional groups and org. colorants with reactive groups. For example, a compn. from glycidyl acrylate-Me methacrylate copolymer acrylate [65608-20-0] 70, trimethylolpropane triacrylate 30, 1,6-hexanediol diacrylate 10, 1:3 Cu tris(chloromethyl)phthalocyanine-N-methylpropanediamine reaction product 2, and benzoin Et ether 2 parts was coated on Al to 30 μ-thick and irradiated with a high-pressure UV lamp (80 W/cm) for 10 s to give a coating with better adhesion, solvent resistance, flexibility, and hardness than that using Cu phthalocyanine.
IT **70848-98-5**
(**photoreactive** dyes, for **photocurable** coatings for aluminum)
RN 70848-98-5 HCA
CN Copper, [C-chloro-C,C-dimethyl-29H,31H-phthalocyanine-C,C-diolato(2-)-N29,N30,N31,N32]- (9CI) (CA INDEX NAME)

PAGE 1-A



D1—Cl

2 (D1—OH)

PAGE 2-A

2 (D1—Me)

IC C08F020-34; C08F002-44; C07F002-48; C08F020-32
CC 42-10 (Coatings, Inks, and Related Products)
IT Tung oil
(coatings contg., contg. reactive dyes, **photocurable**, for aluminum)
IT Urethane polymers, uses and miscellaneous
(coatings, **photocurable**, colored)
IT Coloring
(of **photocurable** coatings, with reactive dyes, for aluminum)
IT Coating materials
(**photocurable**, colored, epoxy **resins** and polyurethanes and polyesters, for aluminum)
IT 7429-90-5, uses and miscellaneous
(coatings for, **photocured**, colored)
IT 106-91-2D, reaction products with eleostearic acid and TDI
13296-76-9D, reaction products with glycidyl methacrylate and TDI
(coatings, contg. tung oil, **photocurable**, contg. reactive dyes, for aluminum)
IT 3524-68-3D, reaction products with TDI, **polymer** with

styrene 26471-62-5D, reaction products with pentaerythritol triacrylate, polymer with styrene 37341-86-9 50658-60-1 61970-25-0 65608-20-0
(coatings, photocurable, contg. reactive dyes, for aluminum)

IT 81-78-7 124-09-4D, reaction products with dye chloromethyl derivs. 124-30-1D, reaction products with dye chloromethyl derivs. 141-43-5D, reaction products with dye chloromethyl derivs. 4471-41-4 6291-84-5D, reaction products with dye chloromethyl derivs. 27121-79-5D, reaction products with amines 70848-62-3D, reaction products with amines 70848-98-5 70858-16-1D, reaction products with amines 70858-17-2D, reaction products with amines
(photoreactive dyes, for photocurable coatings for aluminum)

=> D L42 1-33 TI

L42 ANSWER 1 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Phthalocyanine dyes, their production and their use in jet-printing inks

L42 ANSWER 2 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Color ink sets for ink-jet printing with good light fastness and high resolution

L42 ANSWER 3 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Thermal degradation kinetics of metal(II) 1,8,15,22-tetranitro and tetrahydroxy phthalocyanines

L42 ANSWER 4 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and properties of hydroxy-and-nitro-substituted phthalocyanine complexes

L42 ANSWER 5 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI New "molecular metals" based on symmetrically tetrasubstituted copper phthalocyanine complexes

L42 ANSWER 6 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Application of diazotization reaction for synthesis of substituted phthalocyanines

L42 ANSWER 7 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and structural studies on 1,8,15,22-tetrahydroxyphthalocyanines of Co(II), Ni(II), Cu(II) and Zn(II)

L42 ANSWER 8 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Automotive coatings with good pigment dispersibility

L42 ANSWER 9 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and photoconductivity study of VKCuPc monomer and its homopolymer

L42 ANSWER 10 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Substituted phthalocyanines and optical recording media containing them

L42 ANSWER 11 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Urbach tail in optical absorption for Langmuir-Blodgett films of amphiphilic phthalocyanine molecules

L42 ANSWER 12 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Toners for electrostatic image development containing phthalocynine amine derivative

L42 ANSWER 13 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI A polymer with the mesomorphic order of liquid crystalline phthalocyanines

L42 ANSWER 14 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Effect of modifying additives on the surface energy of copper phthalocyanine

L42 ANSWER 15 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Effect of the modification of a copper phthalocyanine surface on its adsorption properties

L42 ANSWER 16 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Phthalocyanine derivatives

L42 ANSWER 17 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Hydroxypolyphthalocyanines, new semiconductors with interesting properties

L42 ANSWER 18 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Solvent-stable copper phthalocyanines

L42 ANSWER 19 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Dark conductivity of some phthalocyanines

L42 ANSWER 20 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Cumene oxidation in presence of cupric octahydroxyphthalocyanine and

its derivatives

L42 ANSWER 21 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Water-soluble fiber-reactive dyes

L42 ANSWER 22 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and properties of nitro, amino and hydroxy derivatives of metal phthalocyanines from ω-chlorosubstituted 1,2-dimethylbenzene containing a nitro group in a nucleus

L42 ANSWER 23 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and study of the electrical properties of metallic complexes of octahydroxyanthraquinonecyanine

L42 ANSWER 24 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Preparation of highly metallized salts of oxy derivatives of copper phthalocyanine

L42 ANSWER 25 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Substituted phthalocyanine dye developers

L42 ANSWER 26 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Naphthalene derivatives. V. Synthesis of 2,3-naphthalocyanine

L42 ANSWER 27 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Synthesis and properties of hydroxy derivatives of copper phthalocyanine

L42 ANSWER 28 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Preparation of metal complexes of anthraquinone derivatives

L42 ANSWER 29 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Preparation of the tetrahydroxyacetic acid deriv. of copper phthalocyanine

L42 ANSWER 30 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Copper complex of tetrahydroxyphthalocyanine

L42 ANSWER 31 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI 2,5-Bis[2-(5-phenyloxazolyl)]furan

L42 ANSWER 32 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Phthalocyanine dyes

L42 ANSWER 33 OF 33 HCA COPYRIGHT 2009 ACS on STN
TI Water-soluble phthalocyanine dyes

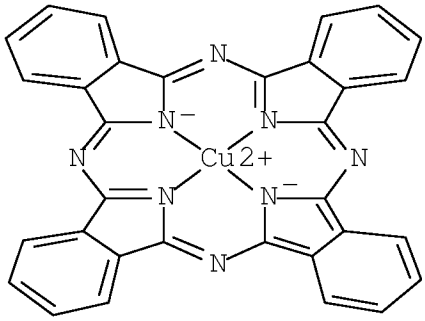
=> D L42 8,10 BIB ABS HITSTR HITRN RE

L42 ANSWER 8 OF 33 HCA COPYRIGHT 2009 ACS on STN
AN 127:19682 HCA Full-text
OREF 127:3917a,3920a
TI Automotive coatings with good pigment dispersibility
IN Itabashi, Masashi; Kamikubo, Takashi; Sawamura, Katsuhiko
PA Toyo Ink Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09078011	A	19970325	JP 1995-238166	19950918 <--

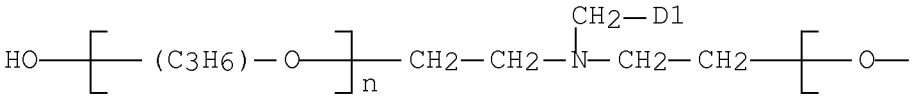
PRAI JP 1995-238166 19950918 <--
AB The coatings contain nonaq. coating varnishes and compns. contg. 100 parts pigments and 0.5-100 parts anthraquinone derivs., acridone derivs., or Q(XNR1YR2)n (I; Q = org. colorant residue, anthraquinone residue, acridone residue; X = SO2, CO, CH2, CH2NHCOCH2; R1 = H, alkyl, YR2; R2 = H, C1-4 lower alkyl; Y = propylene oxide polymer or ethylene oxide-propylene oxide copolymer with av. mol. wt. 400-10,000; n = 1-3). Thus, Cu chloromethylphthalocyanine 150, a N,N-bis(polyoxypropylene)amine 468, and MeOH 2000 parts were mixed at 65° and filtrated under reduced pressure to give a paste contg. 504 parts I. A coating comprising Phthalkyd 133-60 30, U-Van 20SE60 10, C.I. Pigment Blue 15:1 10, I 14, and xylene 50 parts showed good fluidity. A steel plate, which was coated with a primer and sanded, was spray-coated with the coating and baked at 140° to give a test piece with 60° gloss 79.8%.
IT 189400-04-2
(automotive coatings contg. anthraquinone or acridone derivs. and showing good pigment dispersibility)
RN 189400-04-2 HCA
CN Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [[[(29H,31H-phthalocyaninyl-κN29,κN30,κN31,κN32)methylenenitrilo]bis[methylethanolato]](2-)]copper (2:1) (9CI) (CA INDEX NAME)

PAGE 1-A

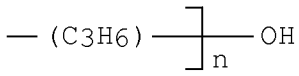


2 (D1—Me)

PAGE 2-A



PAGE 2-B



IT 189400-04-2
(automotive coatings contg. anthraquinone or acridone derivs. and showing good pigment dispersibility)

L42 ANSWER 10 OF 33 HCA COPYRIGHT 2009 ACS on STN
AN 124:178875 HCA Full-text
OREF 124:33141a
TI Substituted phthalocyanines and optical recording media containing them

IN McKeown, Neil Bruce; Treacher, Kevin Edward; Clarkson, Guy James
PA Secretary of State for Defence, UK
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9526381	A1	19951005	WO 1995-GB647	19950323 <--
	W: GB, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 751977	A1	19970108	EP 1995-912334	19950323 <--
	EP 751977	B1	19990428		
	R: CH, DE, FR, GB, IT, LI, NL				
	GB 2302095	A	19970108	GB 1996-19102	19950323 <--
	GB 2302095	B	19981216		
	JP 09511001	T	19971104	JP 1995-525030	19950323 <--
	US 5792860	A	19980811	US 1996-700405	19960925 <--
PRAI	GB 1994-5970	A	19940325 <--		
	WO 1995-GB647	W	19950323 <--		

OS MARPAT 124:178875
AB Phthalocyanines MPc are described, where M is a (substituted) metal atom or Si, or 2H, substituted on the periphery with ≥1 group O[CHY(CHY)k]p[O(CHY)lOm(CHY)n]qOrX [each Y = H, C1-3 alkyl, halogen, CN; k, m, r = 0, 1; l, n, p = 1-10; q = 1-20; X = H, Me, cholesteryl, COR, CO2R, CR1R2R3; R = alkyl; R1-R3 = H, alkyl, alkoxy, (un)substituted Ph], the remaining of the 16 substitutable positions bearing H, alkyl, alkoxy, alkenyl, cholesteryl, CPh3, or (un)substituted Ph or PhO. These compds. are useful in a broad range

of applications, including electrooptical devices, and for use in optical recording media.

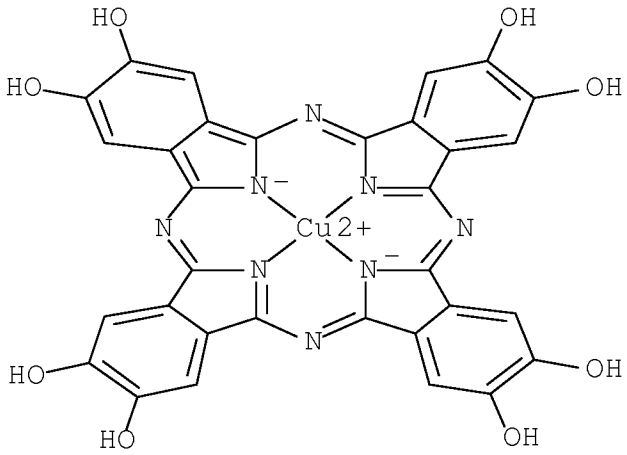
IT 172599-60-9P
(substituted phthalocyanines and optical recording media contg. them)

RN 172599-60-9 HCA

CN Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-, ether with (SP-4-1)-[29H,31H-phthalocyanine-2,3,9,10,16,17,23,24-octolato(2-)-N29,N30,N31,N32]copper (9CI) (CA INDEX NAME)

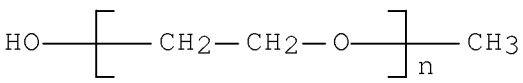
CM 1

CRN 123934-46-3
CMF C32 H16 Cu N8 O8
CCI CCS



CM 2

CRN 9004-74-4
CMF (C2 H4 O)n C H4 O
CCI PMS



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(substituted phthalocyanines and optical recording media contg. them)

RE

(1) Anon; EP 0232427 A1 HCA
(2) Anon; EP 0433220 A2 HCA
(3) Anon; EP 0519423 A2 HCA
(4) Anon; EP 0558449 A1 HCA
(5) Anon; GB 2200650 A HCA